

0.1 Change record

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0.2 Scope

The IMDS Guideline for Suppliers (IGS) is valid for all supplied parts to the global KOSTAL automotive business units. For parts supplied to business units KOSTAL Industry and KKS, limitations could be agreed between these business units and suppliers. Material datasheets must be provided for all products delivered to Kostal.

The IGS is published in English language only. Due to the high maintenance effort, this document is not translated into any other national languages of the suppliers by KOSTAL.

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1. General notes on creating material datasheets

This information sheet summarizes the specific requirements of KOSTAL for creating provisional and final material datasheets in the international material datasheet system (IMDS) and provides notes on how to create them correctly. The legal stipulations, as well as general regulations for creating material datasheets as set out in the IMDS recommendations, are not affected by this present document.

Material datasheets are essential in order to comply with legal regulations and documentation requirements. The lack of accepted datasheets may, for example, threaten the approval of vehicles. By the terms of KOSTAL's purchasing conditions manufacturers are obliged to provide KOSTAL material datasheets via the IMDS. Where datasheets are provided via the IMDS there is no requirement for material datasheets to be provided in paper form. Material datasheet are also required for spares and replacement parts.

As stated in the supplier information note dated 26. February 2016 KOSTAL reserves the right to submit parts for chemical analysis if material datasheets are not provided at the appropriate time and charge the costs to the respective supplier. To verify IMDS data submitted by the supplier, KOSTAL will carry out random laboratory chemical analysis of parts. In case of such an analysis would result in a non-compliance to GADSL, KOSTAL will charge the cost of this analysis and all other cost related to the specific case to the supplier.

KOSTAL reserves the right to charge the supplier the cost for multiple revision of the same MDS in case of necessary rejections.

The supplier commits himself to have the responsibility and complying with current legal requirements and in case of any change, to update the MDS accordingly without further request.

As KOSTAL does not have any influence on the decisions of the IMDS Steering Committee, the collaboration of the suppliers in the implementation of all new IMDS rules is mandatory.

1.1. New submission of material datasheet

As of supplier nomination, provisional datasheets (see item 1.4) or final material datasheets must be sent to KOSTAL. If final datasheets are sent to KOSTAL at an early stage prior to sampling, it is not necessary to prepare provisional datasheets.

Final IMDS data have to be provided min. 6 weeks before ISIR/PPAP submission date. Sampling will not be processed without an approved MDS.

When sending material datasheets, highlight that it is mandatory to be released internally before to submit to KOSTAL using Send MDS or Propose MDS.

MDS sent with the status edit mode / handshake mode is not acceptable. The supplier have to submit evaluated by themselves MDS.

Rejected material datasheets should be processed immediately to cover the reason for rejection and returned. Please cancel rejected material datasheets which will not be used again, or where already accepted versions are available. The accepted datasheets are not deleted by this action.

1.2. Revising material datasheets

If the weight or material constituents of the product change after a material datasheet has been created and sent, so that the details are no longer within the tolerances stated in the original material datasheet, the material datasheet must be revised.

If a material datasheet is revised without a change in the part number, please do not generate a copy with a new IMDS ID. Instead, please use the option "Create new version".

Whenever "hidden" or "deactivated" data is referenced in editable MDSs (e.g. inactive substances, standard material or application code), the creator needs to replace it with a valid one creating a new version. This error will not appear in data of legacy spare parts.

If the datasheet is older than 10 years, a new version of the MDS/Module has to be created. If the change level of a part number does not include a change to the material constituents or weight, a new material datasheet is not required.

1.3. Extent of deliveries

If several parts are included in a sample submission in a single delivery, a material datasheet for the complete delivery must be sent to KOSTAL. Please state the ID and version of this data sheet in the initial sample inspection report. If individual items in the delivery have KOSTAL part numbers, material data sheets must also be drawn up for these.

1.4. Preliminary material datasheets

Recommendation 023 forms the basis for drawing up provisional material data sheets. Suppliers must provide these to KOSTAL without being requested. Unlike the final material data sheets, provisional data sheets may provide incomplete information on materials. With this exception, the requirements regarding accuracy, completeness and guarantees for final data sheets also apply to all other information in the provisional data sheets. Incomplete data sheets must be clearly identified by the term "development sample submission".

This identification does not mean that a development part or prototype, etc. is being submitted as a sample. It merely indicates that the material data sheet was created while the product was in its development phase and the details regarding materials are not yet finalized. A material data sheet is not required for development parts, prototypes or handmade samples!

Prohibited constituents and those requiring declaration to GADSL / GS93008 must be stated. Conformance of the parts with legal requirements must be ensured.

If material data sheets are drawn up as provisional documents, the "ProtMat" materials issued by the IMDS committee (recommendation 023) should be used at the points where the materials are not yet finally determined.

KOSTAL prefers data sheets to be provided as final material data sheets – see section 1.1.

Provisional material data sheets cannot be used for initial sample submissions.

1.5. SCIP database by ECHA

All IMDS MDS must contain the SCIP dossier number.

For each submitted MDS, the supplier is requested to indicate the information for the use of SVHCs in a concentration above 0.1% weight by weight (w/w). This must be done by entering the SCIP dossier no. in the IMDS submissions.

2. Specific requirements

2.1. Part number / item number

For new items this is an 8-digit reference (existing items may have a 14-digit reference). The 14-digit reference is taken from the SAP purchase order which consists of the part number or item number of the drawing and a 3-digit KOSTAL internal key. Any separate letters or numbers following this are omitted when making an entry in the IMDS. e.g., part number / item number 12345678; 12345678901234 (see Fig 1, item 2).

For catalogue parts KOSTAL material number out of the order form may be entered here. Any separate letters or numbers following this are omitted when making an entry in the IMDS. e.g., part number / item number 12345678; 12345678901234 (see Fig 1, item 2).

2.2. IMDS Company / Organisation ID

The IMDS Company ID / organization unit for all production plants is KOSTAL Automobil Elektrik GmbH & Co. KG [149384].

2.3. Specific requirements for drawing information

The following formal requirements must be met, in order to ensure the alignment of essential data in KOSTAL's internal systems. The data required must be entered in receiver-specific fields in the form specified later in this document when sending or making proposals regarding material data sheets - see Fig. 1

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4.2	24.05.2018	bloe	5.	C0104894	Release G8						
Masse Mass		2.93	[g]	SI	Erstellt Drawn	Name	Dok.typ	Doc.typp	Dok.nummer	Doc.number	Änd.stand Rev.level
Projektionsmethode First Angle Projection		07	03.04.2018	bloein01	COMDRAW	3.	12035121-2	0001A	4.1		
Skizzen Scale		KOSTAL			Teilebenennung Schaltmatte						
Oberfläche Surface Coating		Leopold KOSTAL GmbH & Co. KG			Part name 1. Keypad						
Werkstoff Material		Automobil Elektrik Lüdenscheid									
Werkstoff -SILICON											
Allgemeintoleranz General Tolerances		ISO 3302-1-m1			Unabhängigkeitsprinzip nach ISO 8015 Principle of independency acc. to ISO 8015		Artikel Nr.	Article No.	Teile Nr.	Part No.	Änd.stand Rev.level
							2.	12035121	0001		

Fig.1 KOSTAL drawing

Details	
<input checked="" type="checkbox"/> Transfer Information	
Company	KOSTAL GROUP [149372]
Organisation unit	KOSTAL Germany [149384]
Recip. Status	accepted
Supplier Code	Supplier DUNS Number
Name	1. Keypad
Part/Item No.	2. 12035121
Legacy Spare Part	No
Transmission/Check Date	7/10/2019
Forwarding allowed	Yes
<input checked="" type="checkbox"/> Drawing	
Drawing No.	3. 12035121-2
Drawing dated	4.1 / 4.2 0001A / 24.05.2018
Drawing Change Level	5. C0104894
<input checked="" type="checkbox"/> Purchase Order	
Purchase Order No.	-
Bill of Delivery No.	-
<input checked="" type="checkbox"/> Report	
Report No.	-
Date of Report	-

Fig.2 Recipient Data

2.3.1. Material identification / description

This must be the same as on the KOSTAL drawing - see Fig. 1, item 1.

For catalogue parts this must be the material identification on the datasheet of the manufacturer.

2.3.2. Drawing number

For KOSTAL designed parts, the KOSTAL document number must be entered here, .e.g. 12345678-2 (see Fig. 1; item. 3).

For catalogue parts, datasheet number may be entered here.

2.3.3. Drawing date

For KOSTAL designed parts, the Rev.-level and the drawing date covering the material which has been ordered must be entered in this field.

Example: Rev. - level / date 0001A / 24.05.2018 (see Fig. 1; items 4.1 and 4.2).

For catalogue parts datasheets Rev.-level and date covering the material which has been ordered must be entered in this field

2.3.4. Drawing change level

For KOSTAL designed parts, the change "EC" number shown in the order and drawing must be entered in the "drawing change level" field. This is an 8-character combination of letters and numbers - see Fig. 1 EC-Number: for example C0104894 (see Fig. 1, item 5).

For catalogue parts, no input is necessary.

2.4. Purchasing document / order number

KOSTAL purchasing document number must be entered in the "order number" field.

2.5. Supplier code

The KOSTAL supplier must be entered in the relevant field. Please use your DUNS number of the production location and not the KOSTAL supplier number. e.g., DUNS: 12-345-6789.

3. Quality of material datasheet

All MDSs have to be submitted under current IMDS Recommendations

3.1. Material name and classification

Please comply with the instructions in VDA 231-106 regarding the correct material classification. If the material is described in a public standard (steel, plastic, elastomer) then the material name according to this public standard must be entered.

All material data sheets (MDSs) containing deactivated classifications will be rejected. This refers to all submitted MDSs, no matter if the described part is new or a legacy part. Therefore, all suppliers must resubmit these MDSs by using a valid classification, which describes the material as detailed as possible.

3.2. Standard materials / Published MDSs

Preferably, use the materials that are drawn up by the IMDS Steering Committee.

In case IMDS Steering Committee MDS is used, the application code is responsibility of the data creator.

3.3. Proportion and tolerances

When assessing a material data sheet regarding the individual constituent content it is assumed that the maximum amount of material stated by the supplier is present in the product.

Note: "It is not allowed to control the weight by multiplying the quantity of a component."

The deviation values are checked for each component node level and should not exceed the upper limits defined as percentages. The weight ranges and respective limits are shown in Fig.3.

Weight of component (X)	Max. deviation in %
$X < 1\text{g}$	100
$1\text{g} \leq X < 100\text{g}$	10
$100\text{g} \leq X < 1\text{kg}$	5
$1\text{kg} \leq X < 10\text{kg}$	2
$10\text{kg} \leq X < 100\text{kg}$	1
$X \geq 100\text{kg}$	0.5

Fig.3 Weight limits

If components (such as unfinished parts) lose significant amount of weight through further processing (e.g., drilling, milling, etc.) these must be entered and called for as semi-finished products. Any compensation for the loss of weight by excessive deviations (from the measured to the calculated weight) is not acceptable.

Note that MDS must be submitted with the real weight of the part, confirmed via measuring process on the relevant scale.

3.4. Recyclate information

With the new Release 14 chemical recycling and portions of bio-based materials will be possible to be declared via the wizard dialog in hierarchical manner. There are three types of recyclate:

- Mechanical recyclate for classifications 1-5, 7.1, 7.2
- Chemical recyclate for all classifications
- Bio-based content for classifications 5-6, 9.1-9.4

For materials of the classifications 5.x the question for Recyclate must always be answered with Yes or No. The answer Yes requests the information to be completed according to REC025.

It is essential to state the proportion of recycled materials used in the case of non-5.x materials. For more information, please check IMDS Recommendation 25.

3.5. Polymeric Parts Marking

Polymeric Parts Marking field is mandatory in case one or more child nodes contain:

- materials with the classifications 5.1.x, 5.4.x and 5.5.x that sum to a weight of more than 100g;
- materials with the classifications 5.2 and 5.3 that sum to a weight of more than 200g.

“No”- part not marked as required. MDS with Polymeric Parts Marking section answered by “No” will be rejected.

“Yes”- part marked as required on drawing

“Not applicable”- part do not require marking due to specifications of weight, geometric restriction or surface requirements.

3.6. Application code

The correct application code must be assigned, in case a material contains application-relevant substance. If the application code “Within GADSL Limits” is available, it must be used.

3.7. Structure of MDS

Structure Mix is only allowed for non-article semi components or materials, which are added to a part or assembly without specific shape, surface or design (coating, lubricant or similar). When the structure mix used, the mandatory note must be “Applied to article as” as chosen relevant application as shown in Fig.4.



Fig.4. Structure mix

3.8. Confidential substances

Highly confidential substances that are not declarable or prohibited according to GADSL, REACH SVHC list and do not require an application code should be marked as Confidential. Do not use Jokers/Wildcards. Only the wildcard “not yet specified” is allowed in preliminary data sheets.

3.9. Declarable substances

Please note that if plastic materials are shown without details of the relevant additive, the submission will not be accepted.

The Global Automotive Declarable Substance List (GADSL) was updated with new PFAS including their reporting thresholds. All PFAS should be reported. Moreover, existing IMDS data needs to be reviewed and updated accordingly.

4. ISIR / PPAP

For the initial sample submission the IMDS-ID with a version of a previously accepted material data sheet is essential. Please enter this number in the ISIR cover sheet - for example, IMDS-ID 12345678.

Provisional / Preliminary material data sheets cannot be used for ISIR / PPAP submissions.

If an increase in the change issue number does not change the weight or the constituent make-up of the product you can use the IMDS ID and version of the latest data sheet already accepted when making the initial sample submission - see section 1.2. Otherwise, a new version of the material data sheet must be drawn up.

5. Contacts

For any questions/ concerns regarding IMDS data, please contact Kostal’s Global IMDS Expert Team at e-mail: Global-IMDS-Team@KOSTAL.COM

6. Co-applicable Documents

IMDS Recommendation (REC001-REC025),

IMDS Recommendation Annex I,

OEM Specific Requirements (Guidelines),

Global Automotive Declarable Substance List (GADSL),

ELV Directive Annex II,

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), etc.